

compound, wherein the power cable is a medium-voltage to high voltage direct current power cable.

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10. (Three times amended) The power cable according to claim 1, wherein the at least one covering layer comprises at least one semiconductor screen, characterized in that the at least one semiconductor screen is constituted essentially of a material comprising an inorganic compound having an exfoliated layered structure and an organic compound inserted between the layers of said inorganic compound.

11. (Twice Amended) A method of fabricating at least one conductive layer of a medium-voltage to high voltage direct current power cable having a conductive core, comprising the following steps:

treating layers of an inorganic compound with an agent to render said inorganic compound compatible with an organic compound;

inserting said organic compound between said layers of said inorganic compound at a temperature higher than the temperature at which said organic compound softens or melts to exfoliate said inorganic compound; and

obtaining a material with said organic compound inserted between the layers of said inorganic compound.

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